

Claims:

1. A support (15) for a cartridge (10) provided with one or more electronically readable information carrying areas (121, 122, 123, 124, 125, 126, 127) characterized in that the support (15) for the cartridge (10) is at least partially constituted by one or more electrically connecting supports (151), each comprising a number of closely spaced mutually electrically insulated conductors (1511) embedded in an electrically insulating material (1512, 155) that stretches from one of the supporting surfaces of the cartridge to a contact area (163) for receiving and transferring the information, when said cartridge (10) is positioned in said support (15).
2. A support according to claim 1, characterized in that each of said one or more electrically connecting supports (151; 251, 252; 351) is constituted by alternating layers of electrically conducting material (1511; 2511; 3511) of maximum thickness T_{c1} (640) and electrically insulating material (1512; 2512; 3512) of maximum thickness T_{i1} (respectively).
3. A support according to claim 1 or 2, characterized in that said support (15; 25; 35) is made of elastic materials.
4. A support according to any one of claims 1-3, characterized in that said one or more electrically connecting supports (151; 251, 252; 351) are made of elastomeric materials.

9. A support according to any one of claims 1-7,
c h a r a c t e r i z e d in that
said support (25; 70) comprises two or more electrically
30 connecting supports (251, 252; 701, 702, 703) each
stretching preferably in an axial direction (21; 72) of
the cartridge (20; 71) and being located side by side
along the radial periphery of the cartridge.

10. A support according to any one of claims 1-9,
c h a r a c t e r i z e d in that
the surface of the support (15; 25; 35) facing towards
the cartridge (10; 20; 30), including the one or more
5 electrically connecting supports (151; 251, 252; 351), in
an axial cross section correspond to the surface of the
cartridge.

11. A support according to any one of claims 1-9,
10 c h a r a c t e r i z e d in that
the surface of the support (70) facing towards the car-
tridge (71), including the one or more electrically con-
necting supports (701, 702, 703), in an axial cross sec-
tion essentially correspond to the surface of the car-
15 tridge, when said cartridge is positioned in said sup-
port.

12. A support according to any one of claims 1-11,
c h a r a c t e r i z e d in that
20 said cartridge (10) has an axial direction of symmetry
(11), and said contact area (163) consists of groups of
identical and regularly spaced electrically conducting
pads (62) of width W_{cp} (620) in the direction of adjacent
pads, adjacent pads being separated by an electrically
25 insulating area of width D_{iacp} (621), and the following
relations between said distances are fulfilled:

$$D_{iacp} > 2 \cdot T_{cl}, \text{ and}$$

$$W_{cp} > T_{l1} + T_{cl} .$$

30 13. A support according to any one of claims 1-12,
c h a r a c t e r i z e d in that
said cartridge (20) has an axial direction of symmetry
(21), and said cartridge is provided with a multitude of
rectangular, essentially parallel, identically sized in-

006039-03001

formation carrying areas (810, 820, 830, 840, 850, 860) of height Hica (87) in the direction of a circumference (80) of said axis of symmetry (21), said information carrying areas being spaced with equal mutual distance Dica (88) along the periphery of the cartridge in the direction of a circumference (80) of said axis of symmetry (21), and said supporting means (25) comprise two rectangular, essentially parallel, identical electrically connecting supports (251, 252; 81, 82) of height Hctm (85) in the direction perpendicular to the axis of symmetry of the cartridge, separated by an electrically insulating volume (255) of width Dctm (86) between the two electrically connecting supports, and the following relations between said distances are fulfilled:

15 $Hica < Dctm < 2 \cdot Hica + Dica$, and
 $Hctm < Dica < 2 \cdot Hctm + Dctm$.

14. A support according to claim 13, characterized in that

20 said information carrying areas (810, 820, 830, 840, 850, 860) of height Hica (87) each consist of electrically conducting (8102) and electrically insulating (8101) rectangular patches provided at said predefined positions on said cartridge according to a binary representation of

25 said item of information, said patches (8101, 8102) having a width Wpda (89) abut each other, and the sum of the maximum thicknesses T_{c1} (640) and T_{i1} (630) of said alternating layers of electrically conducting (64) and electrically insulating (63) materials, respectively, constituting said electrically connecting supports (81, 82), is

30 less than the width Wpda (89) of said patches, thus fulfilling the following relation between said distances:

$Wpda > T_{i1} + T_{c1}$.

T06080"25/5260

5 c h a r a c t e r i z e d i n t h a t

10 cartridge (10) to a contact area (163).

17. The use of a composite material according to claim 16
c h a r a c t e r i z e d in that
said alternating layers of electrically conducting (1511)
material and electrically insulating (1512) material, re-
spectively are made of elastomeric materials.

25